**FIG. 1**

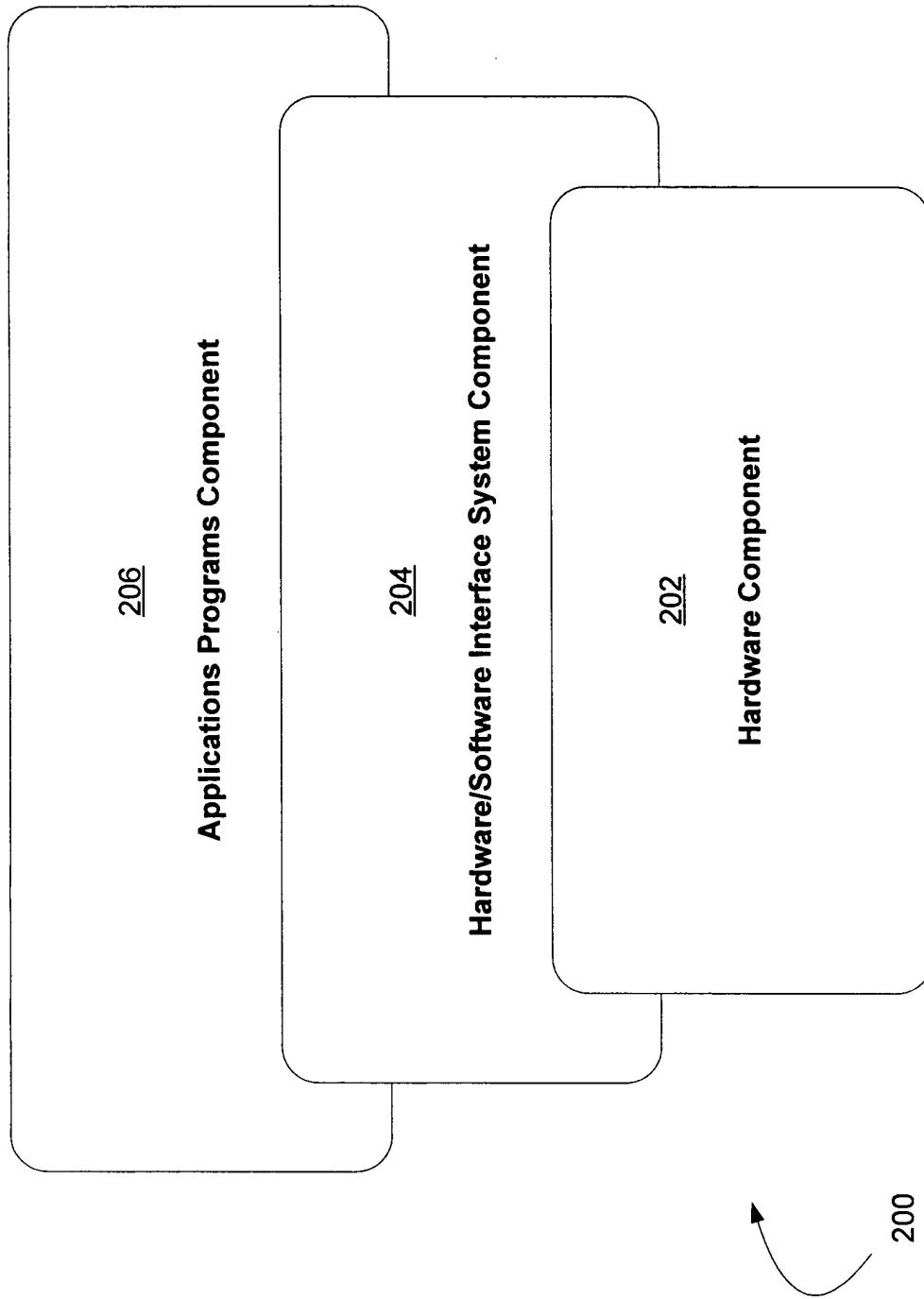
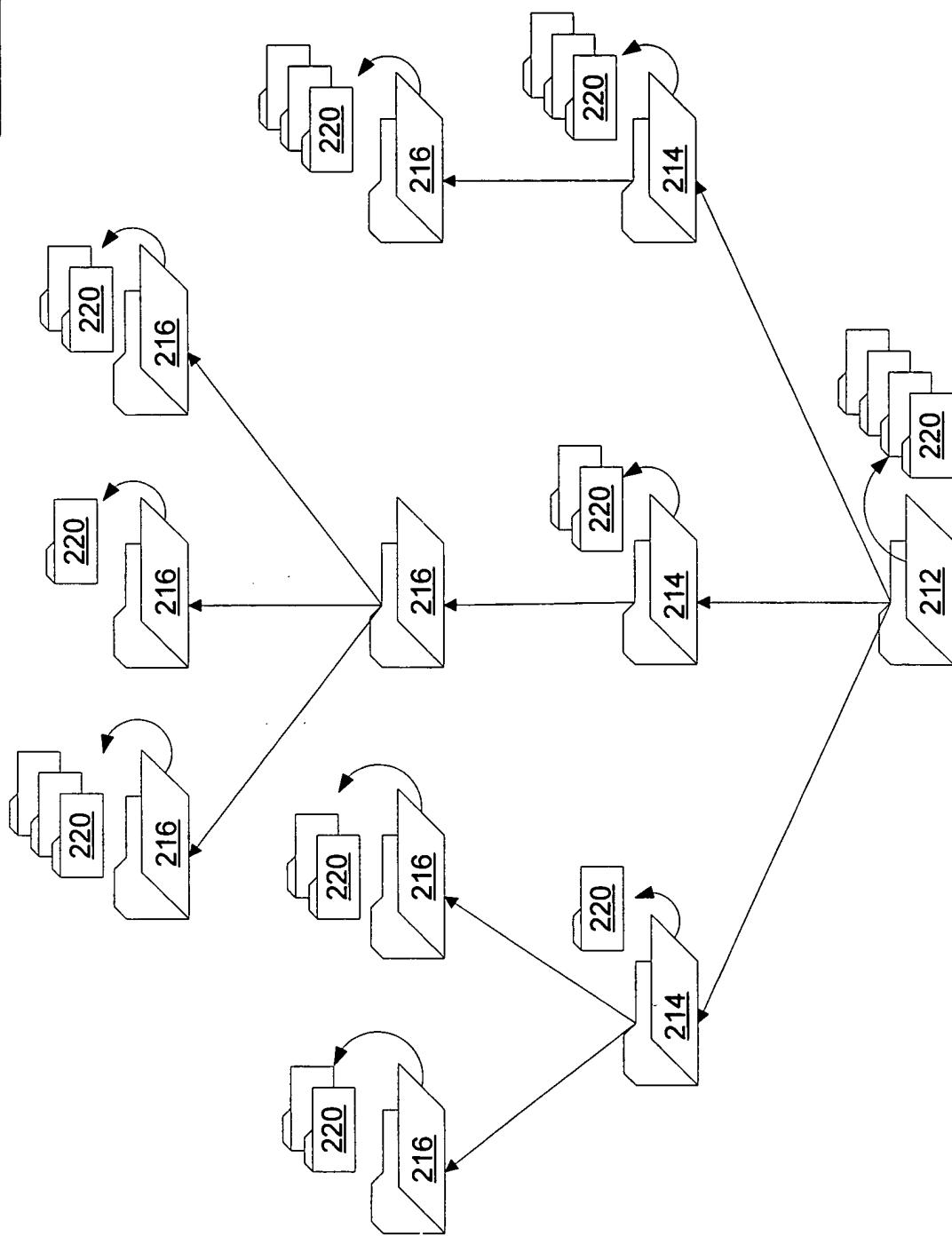
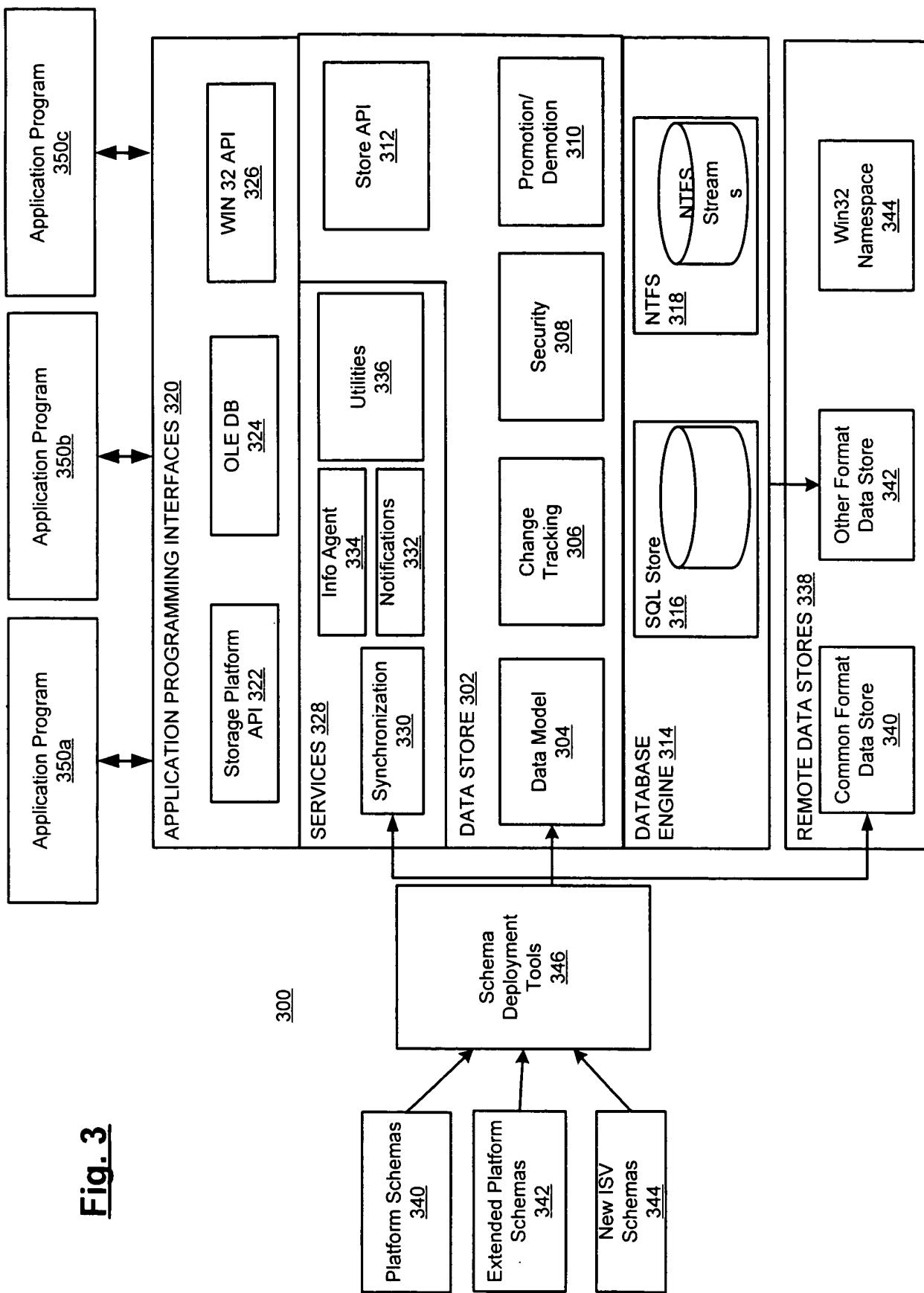


FIG. 2

FIG. 2A



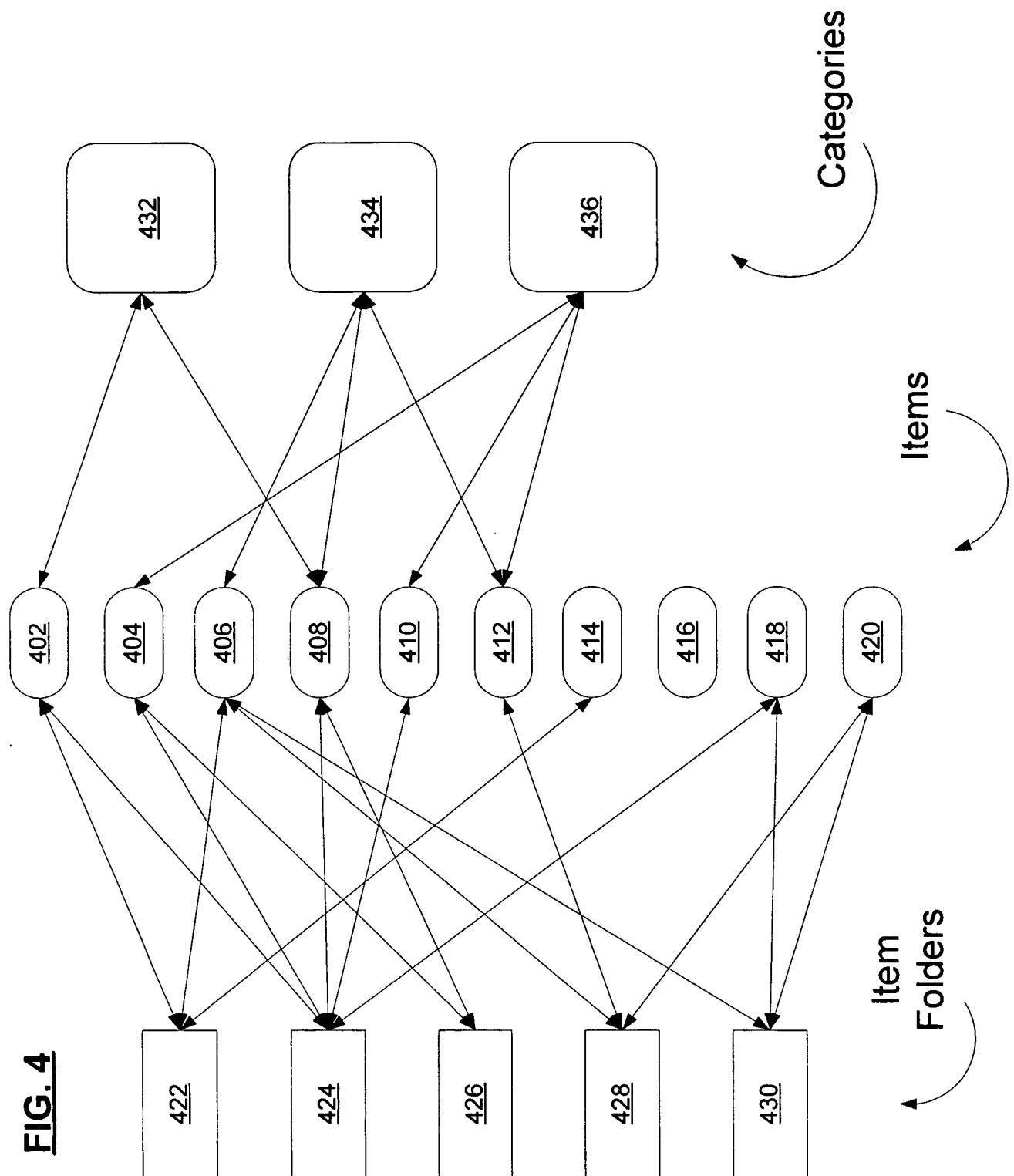
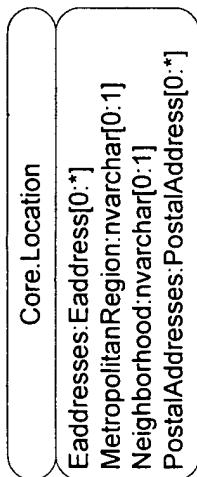
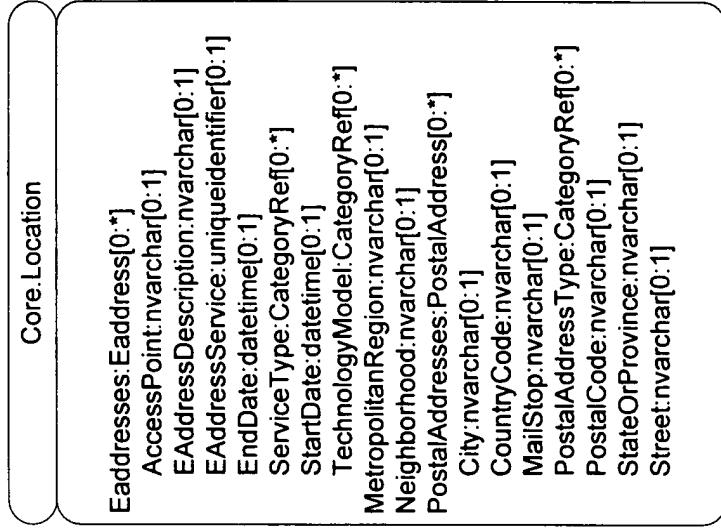


FIG. 5A

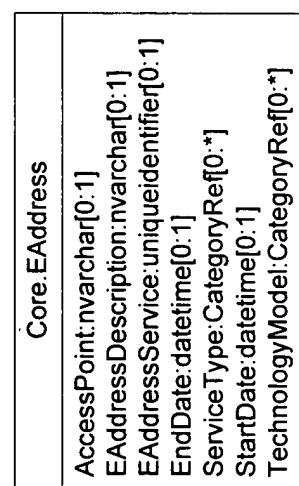
Core.Location

Addresses: EAddress[0..*]
 MetropolitanRegion:nvarchar[0..1]
 Neighborhood:nvarchar[0..1]
 PostalAddresses:PostalAddress[0..*]

FIG. 5C

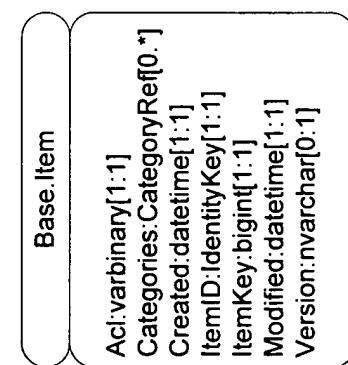
Core.Location

Addresses:EAddress[0..*]
 AccessPoint:nvarchar[0..1]
 EAddressDescription:nvarchar[0..1]
 EAddressService:uniqueidentifier[0..1]
 EndDate:datetime[0..1]
 ServiceType:CategoryRef[0..*]
 StartDate:datetime[0..1]
 TechnologyModel:CategoryRef[0..*]
 MetropolitanRegion:nvarchar[0..1]
 Neighborhood:nvarchar[0..1]
 PostalAddresses:PostalAddress[0..*]
 City:nvarchar[0..1]
 CountryCode:nvarchar[0..1]
 MailStop:nvarchar[0..1]
 PostalAddressType:CategoryRef[0..*]
 PostalCode:nvarchar[0..1]
 StateOrProvince:nvarchar[0..1]
 Street:nvarchar[0..1]

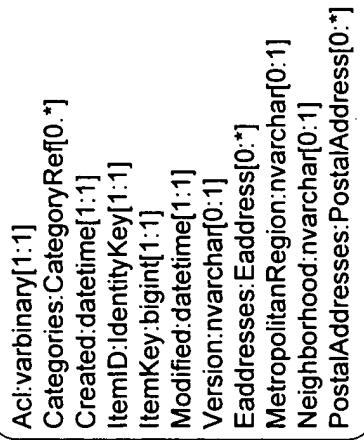
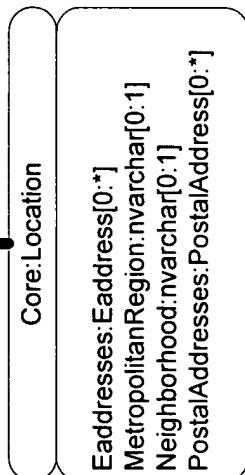
FIG. 5B

Core.Address

AccessPoint:nvarchar[0..1]
 EAddressDescription:nvarchar[0..1]
 EAddressService:uniqueidentifier[0..1]
 EndDate:datetime[0..1]
 ServiceType:CategoryRef[0..*]
 StartDate:datetime[0..1]
 TechnologyModel:CategoryRef[0..*]

FIG. 6A

Core:Location

**FIG. 6B**

Base Schema Items

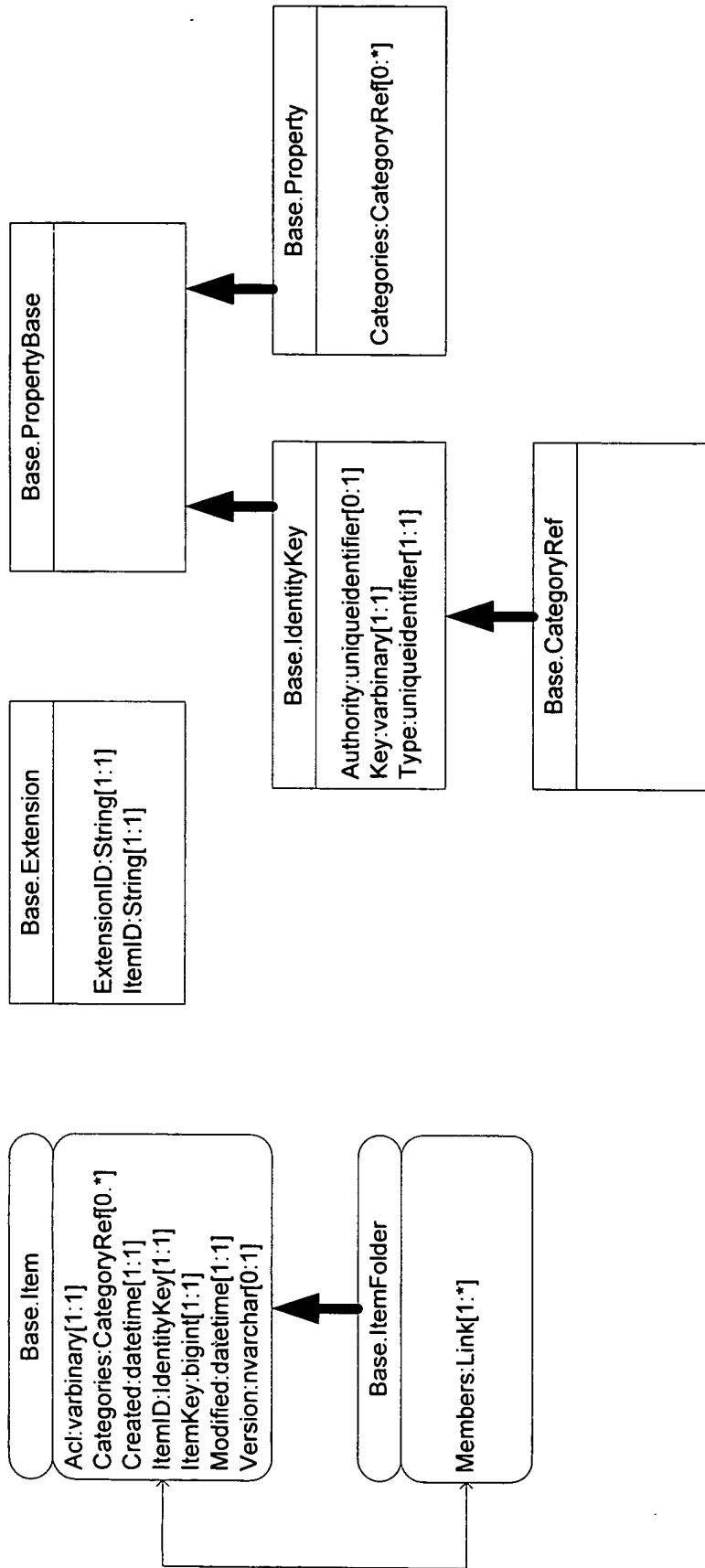


FIG. 7

Core Schema Items

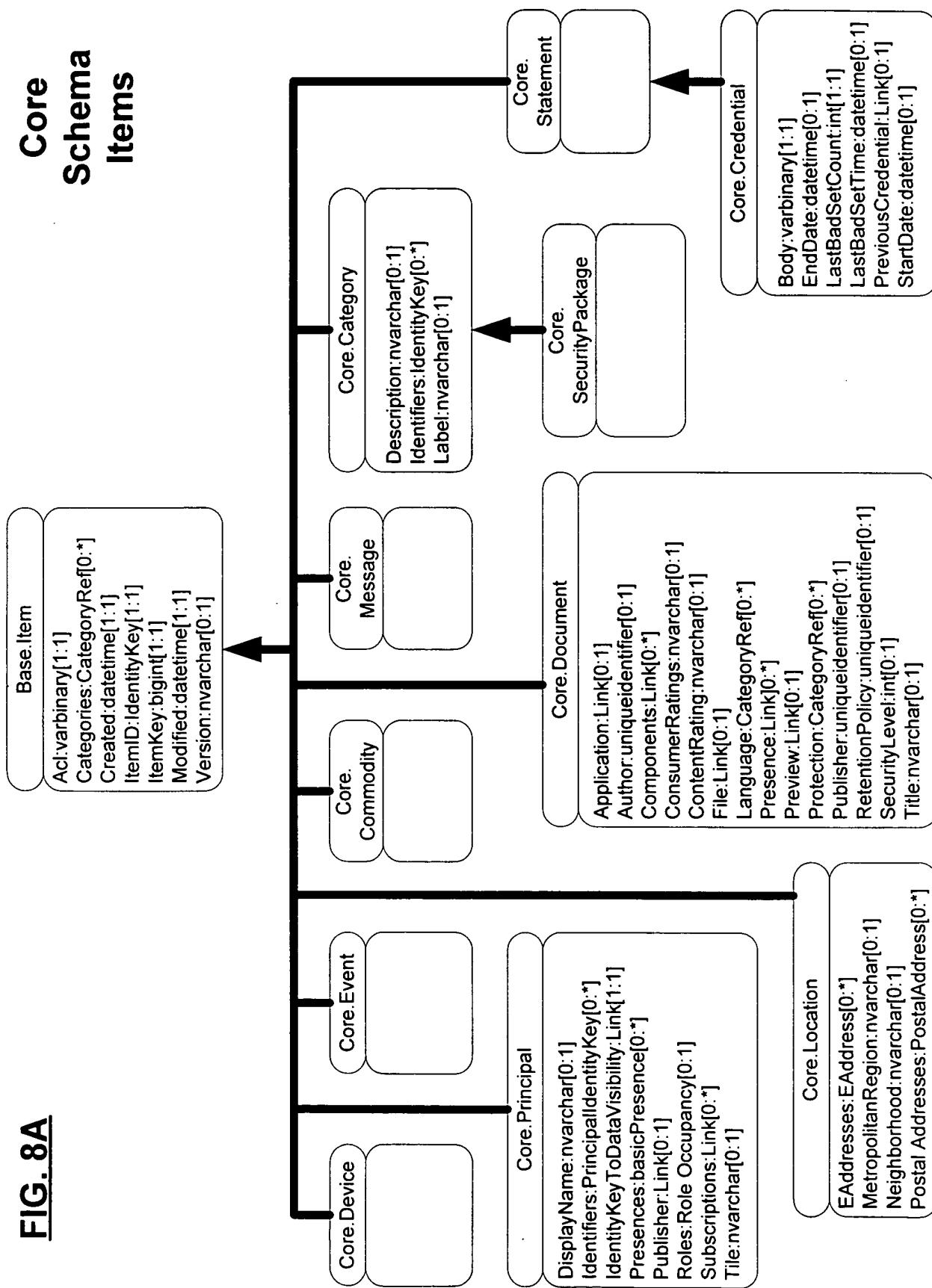
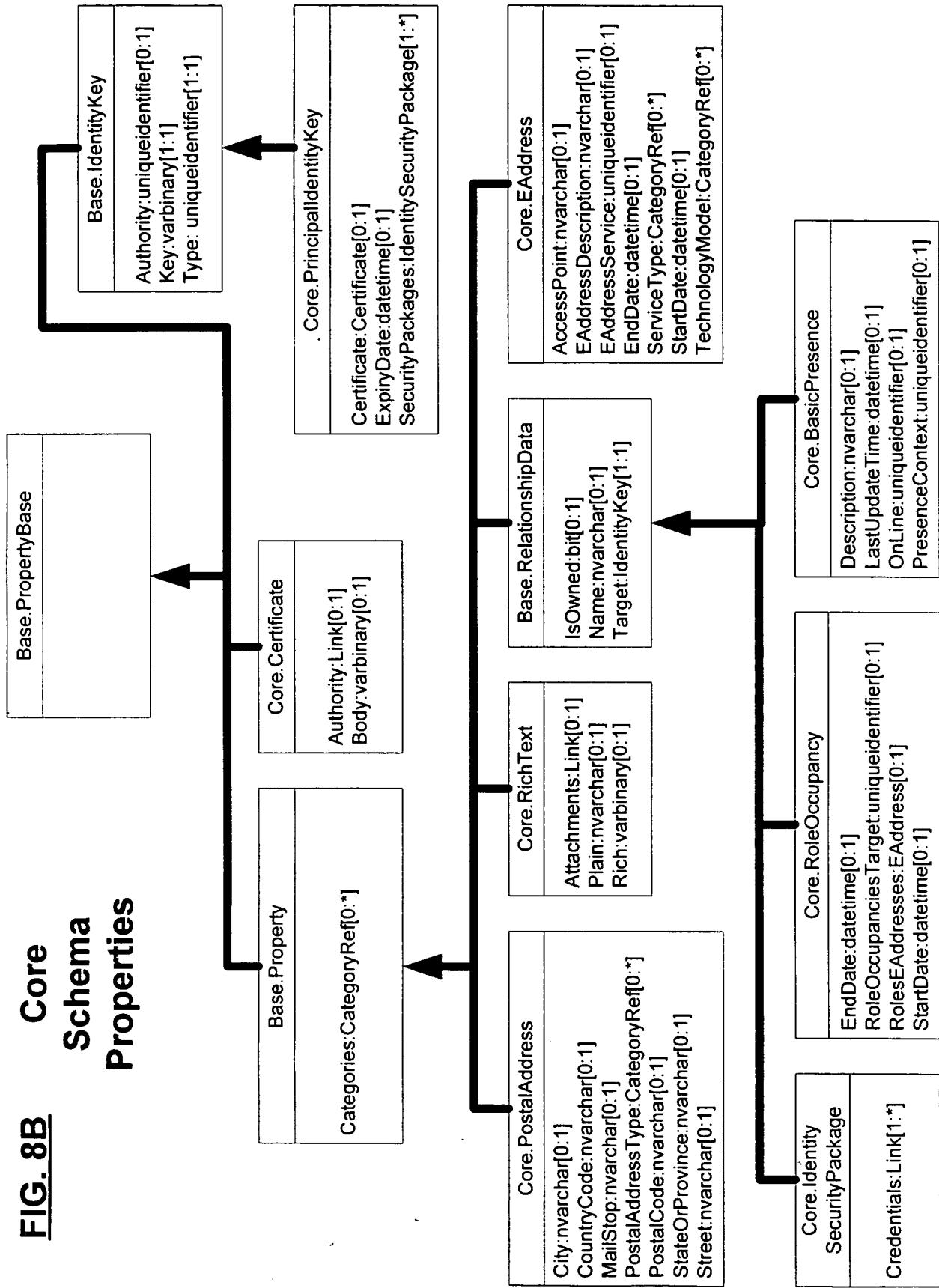


FIG. 8A

FIG. 8B

Core Schema Properties



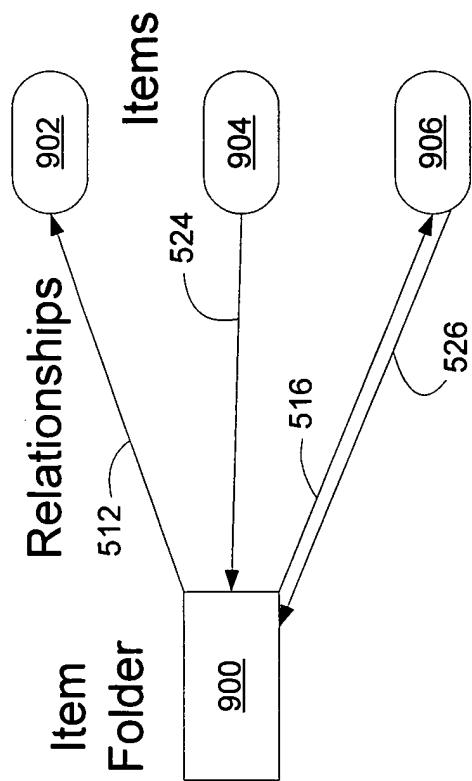
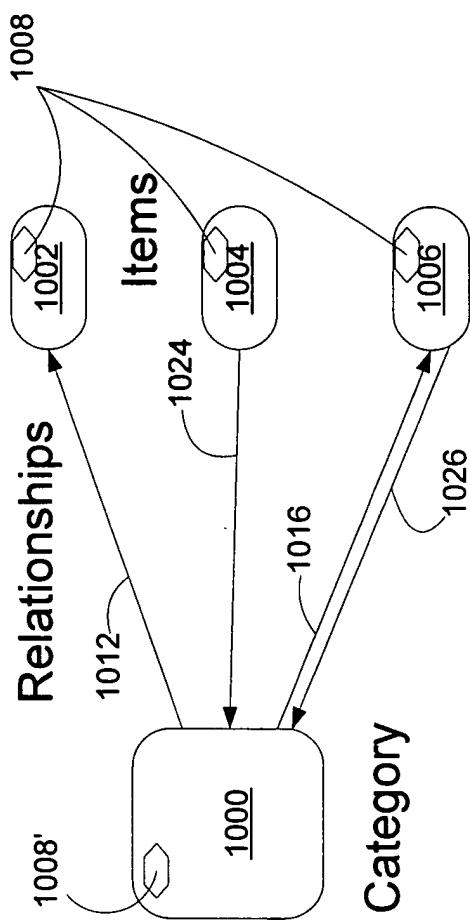


FIG. 9



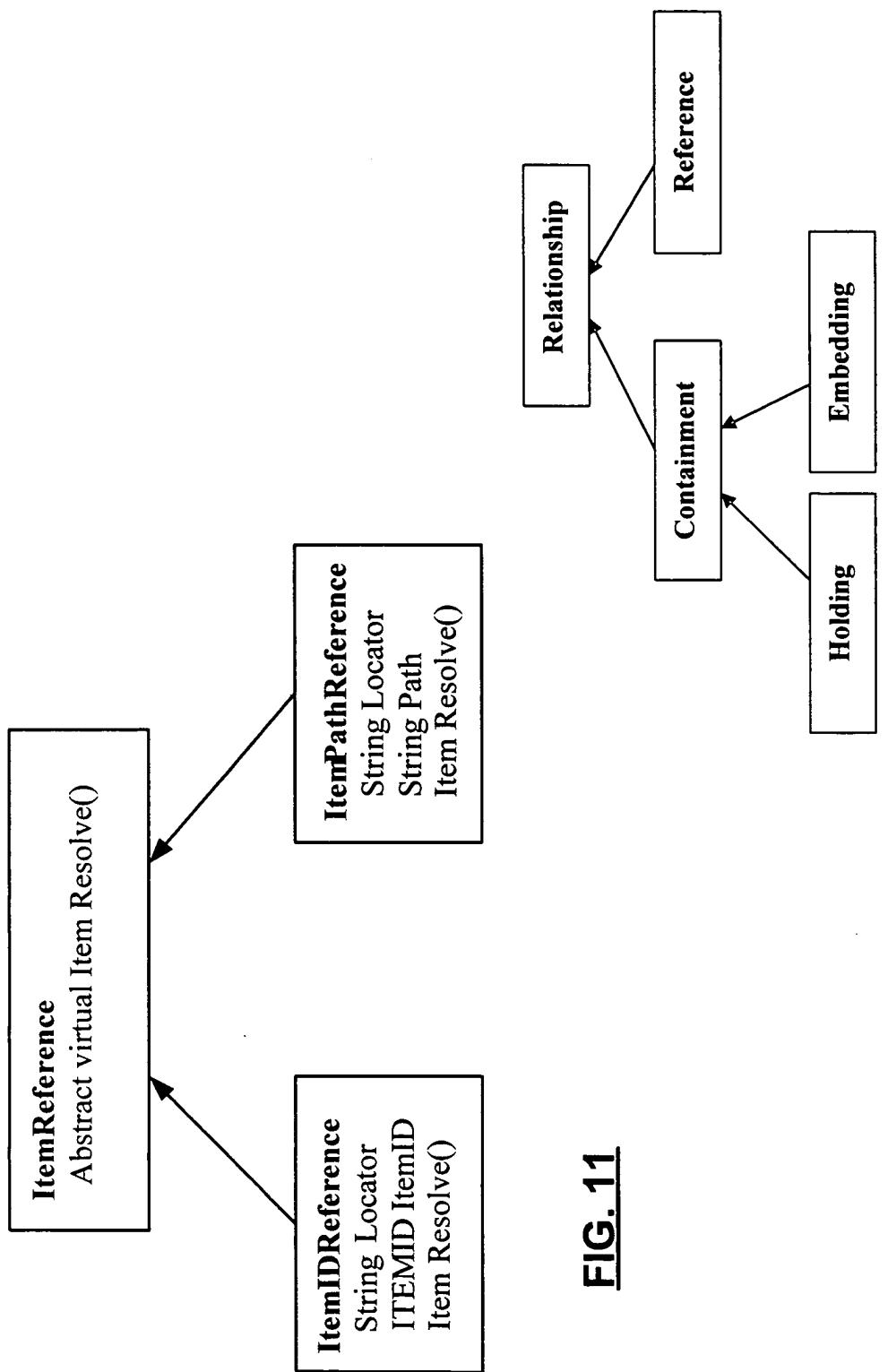
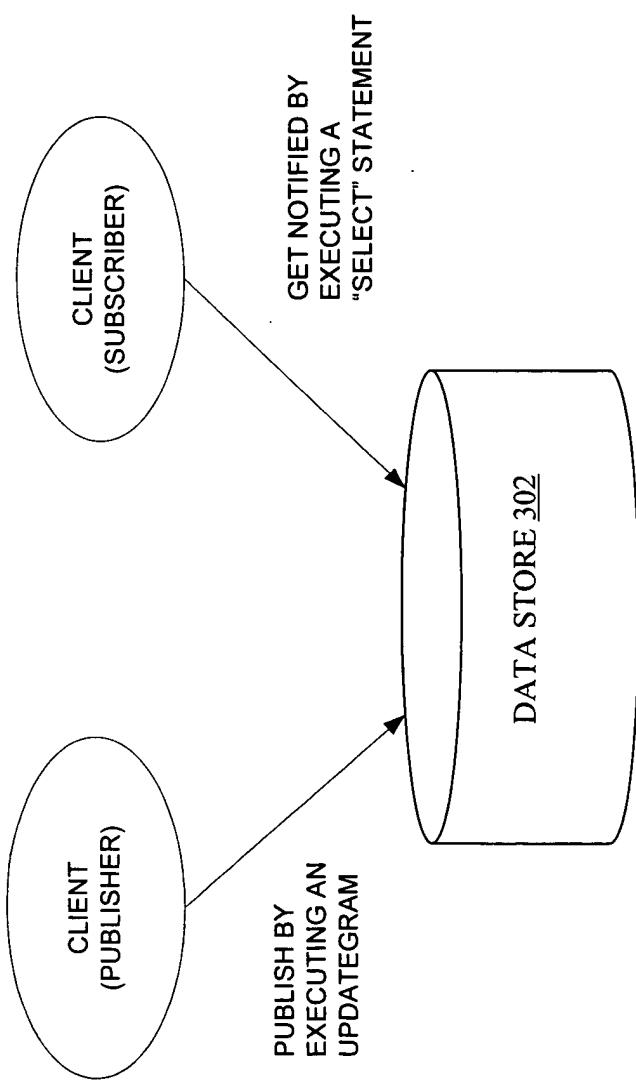
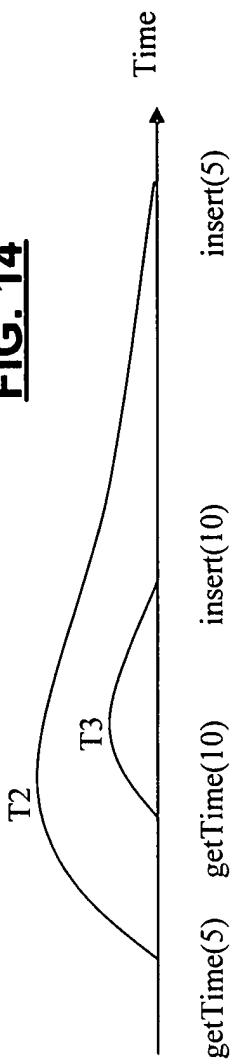
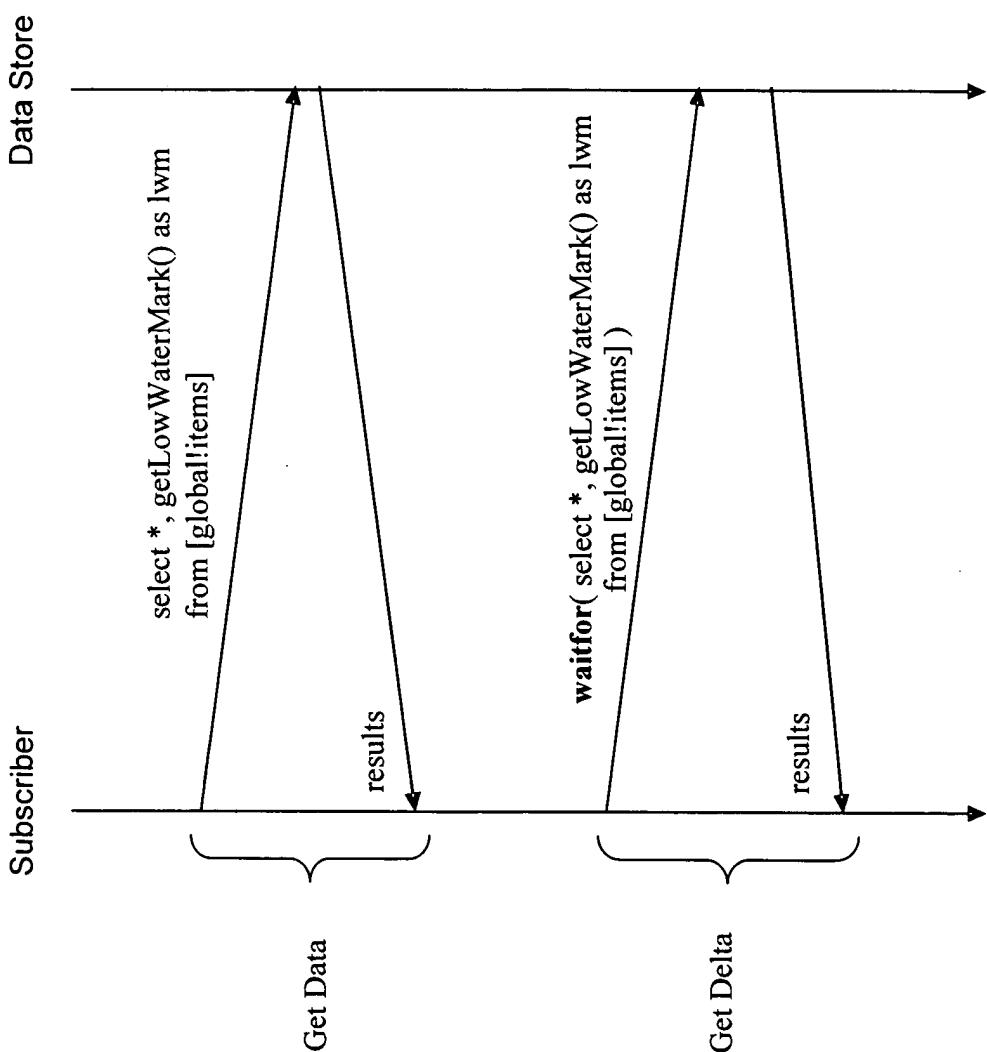
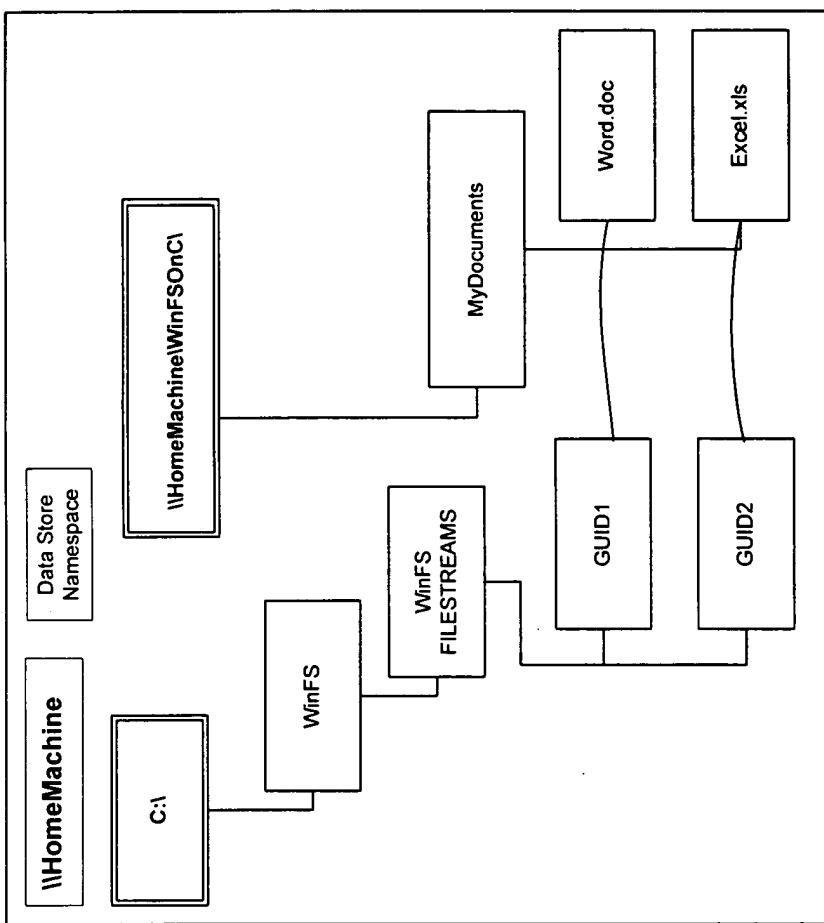
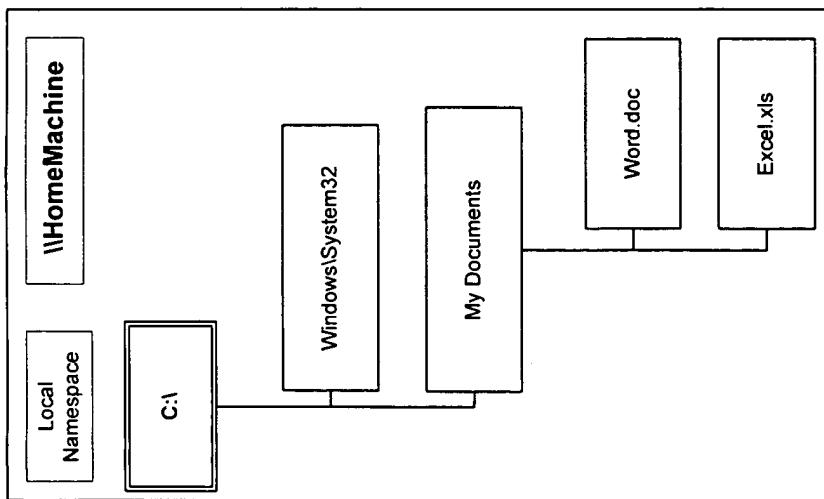


FIG. 13**FIG. 14**

**FIG. 15**

**FIG. 17****FIG. 16**

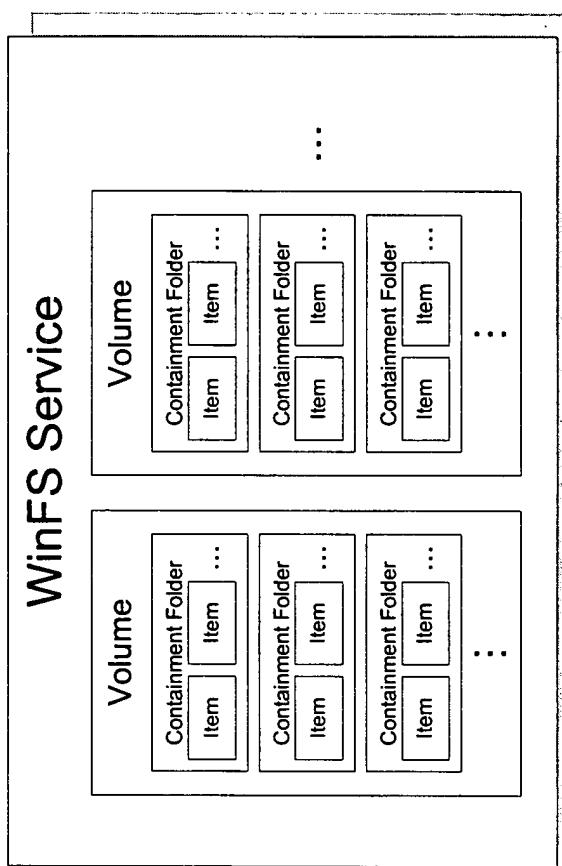
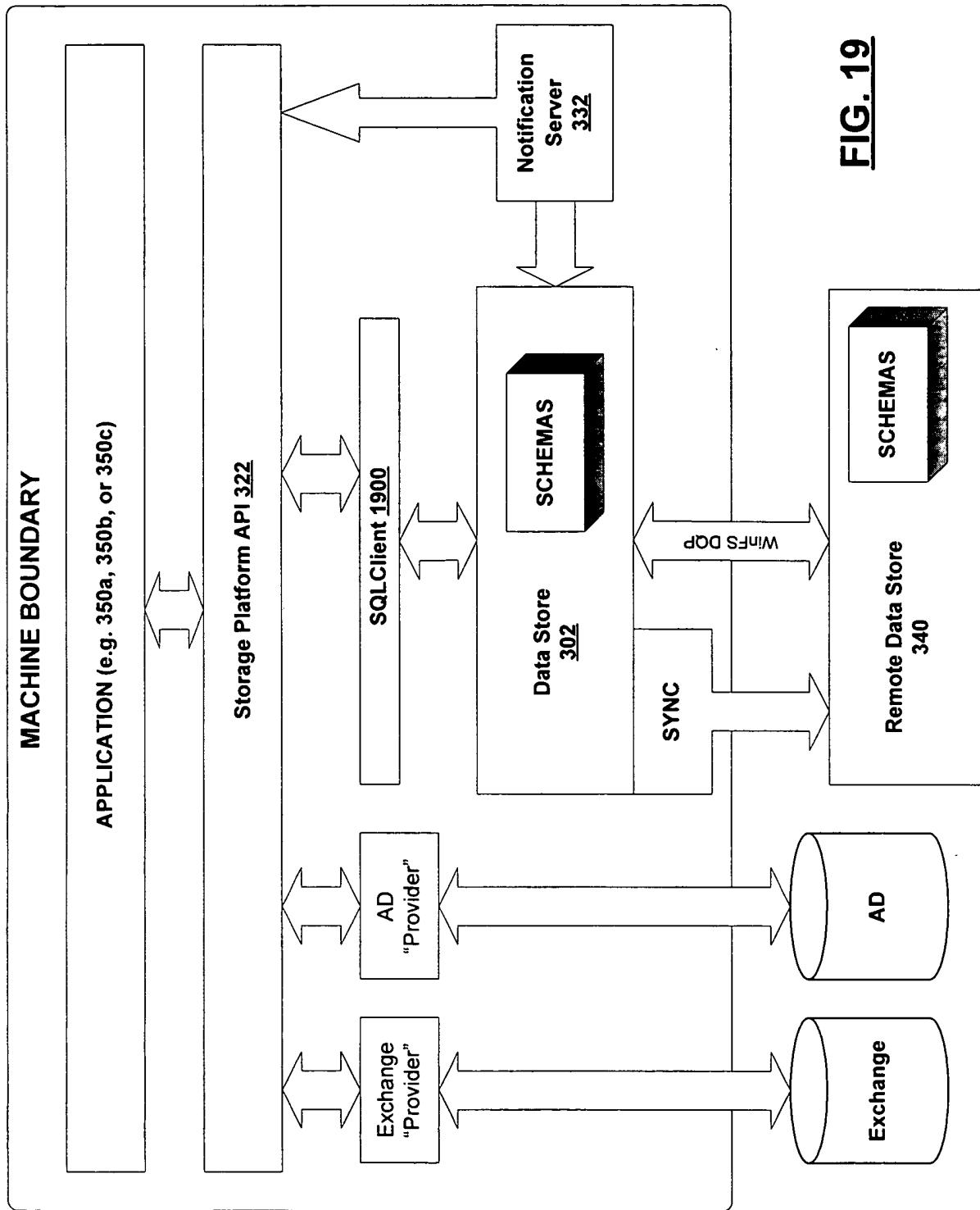
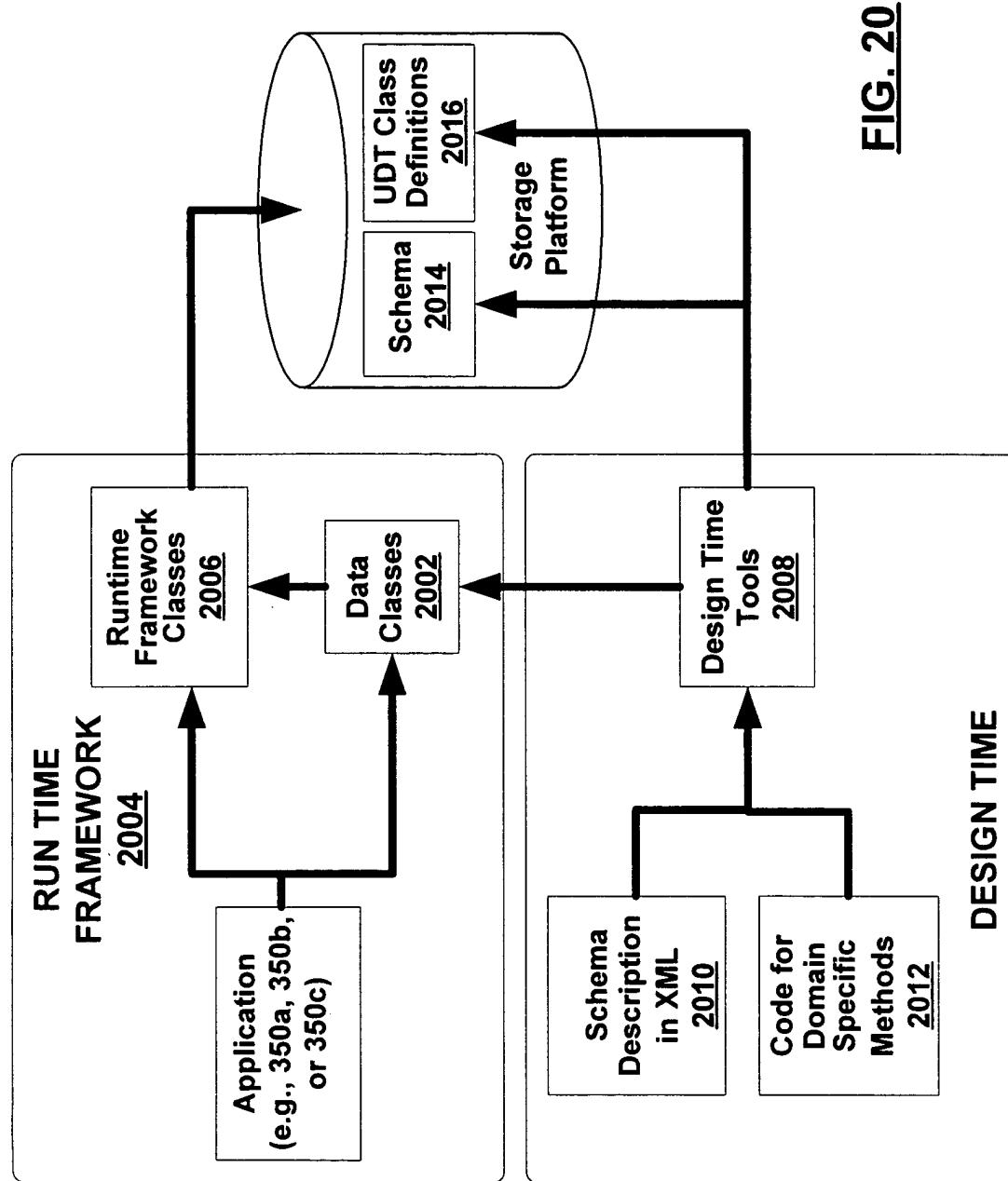


FIG. 18





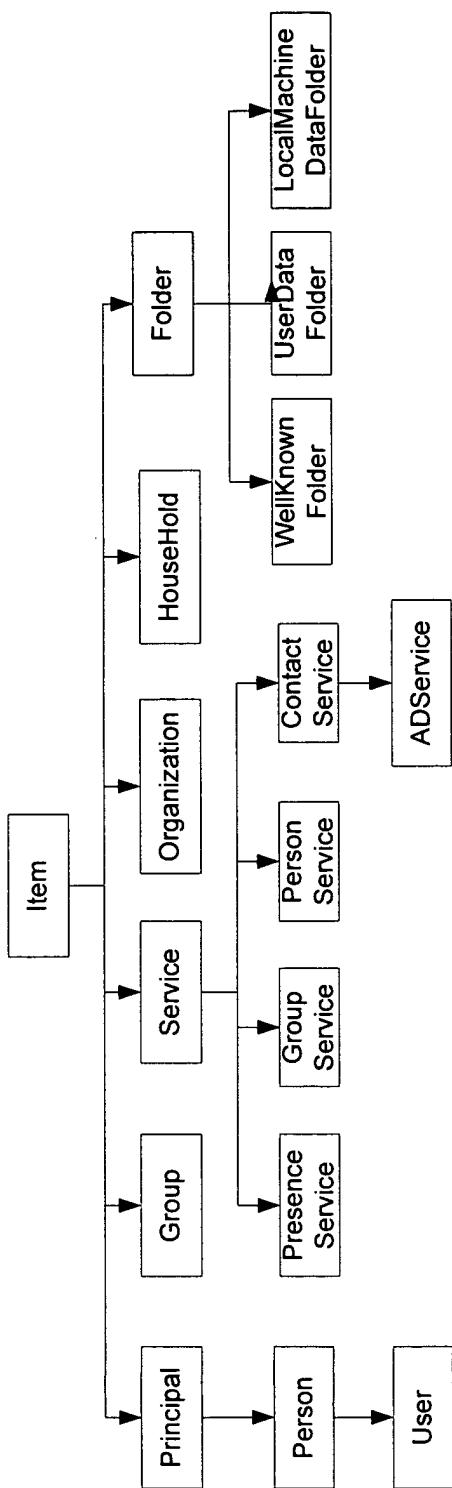
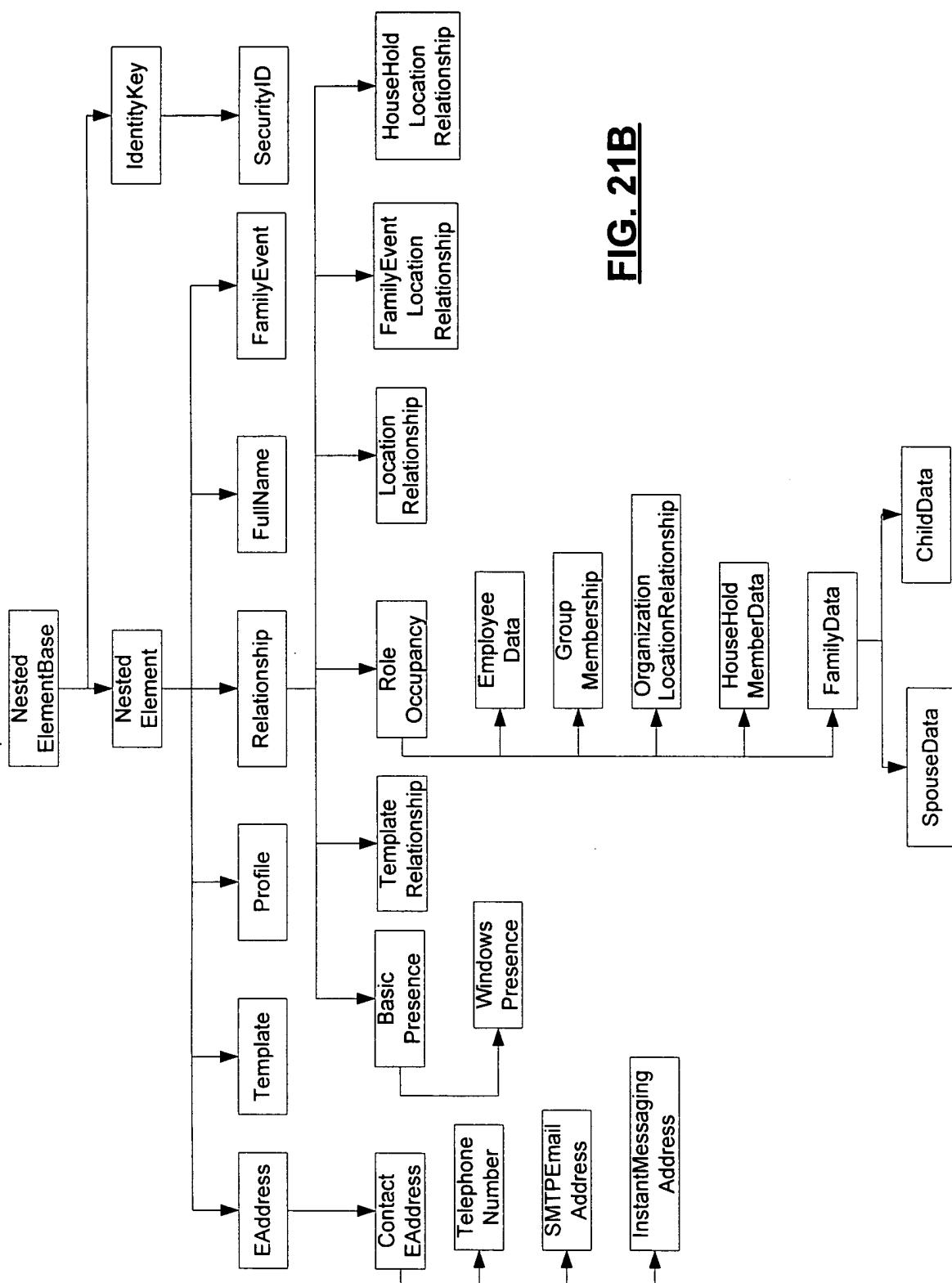
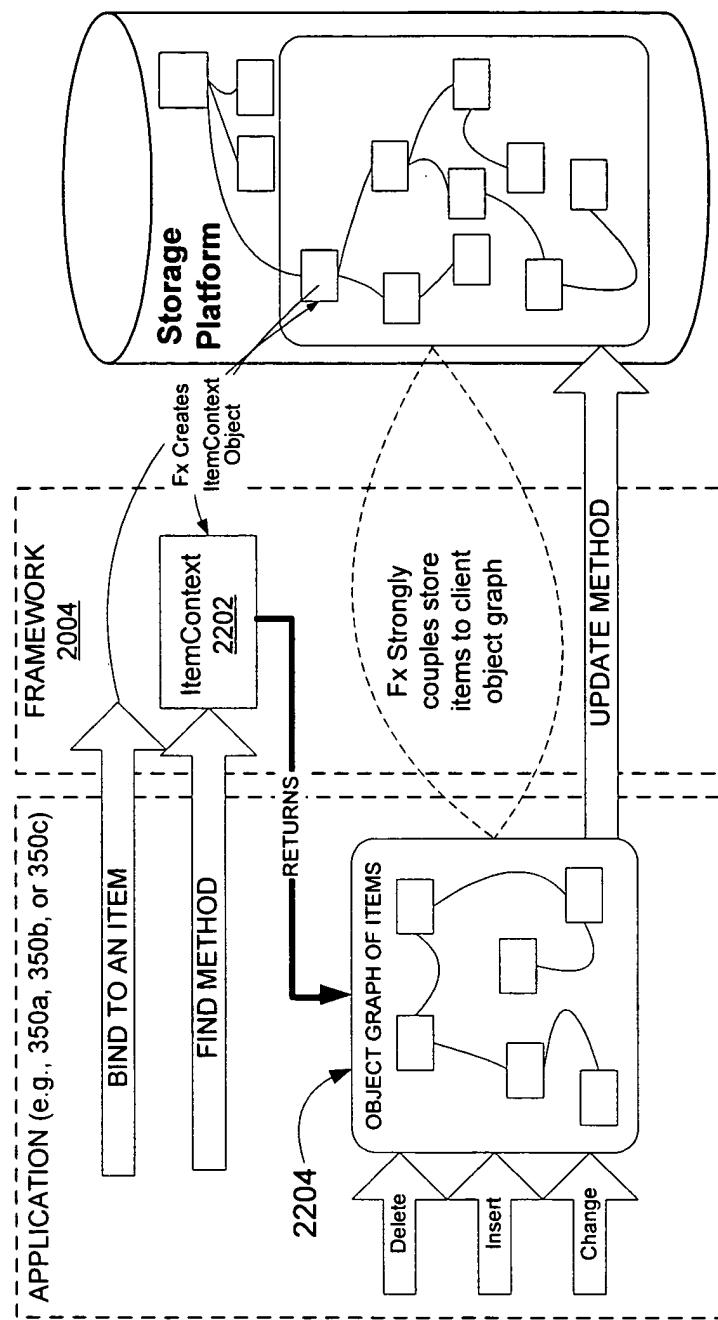
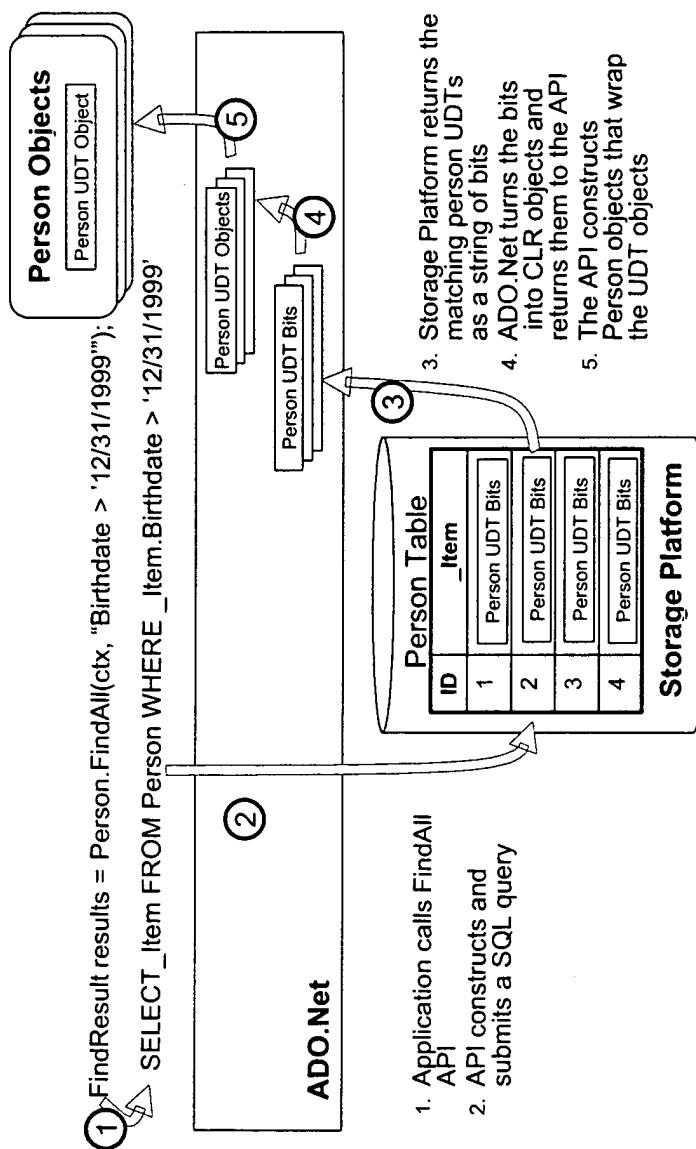
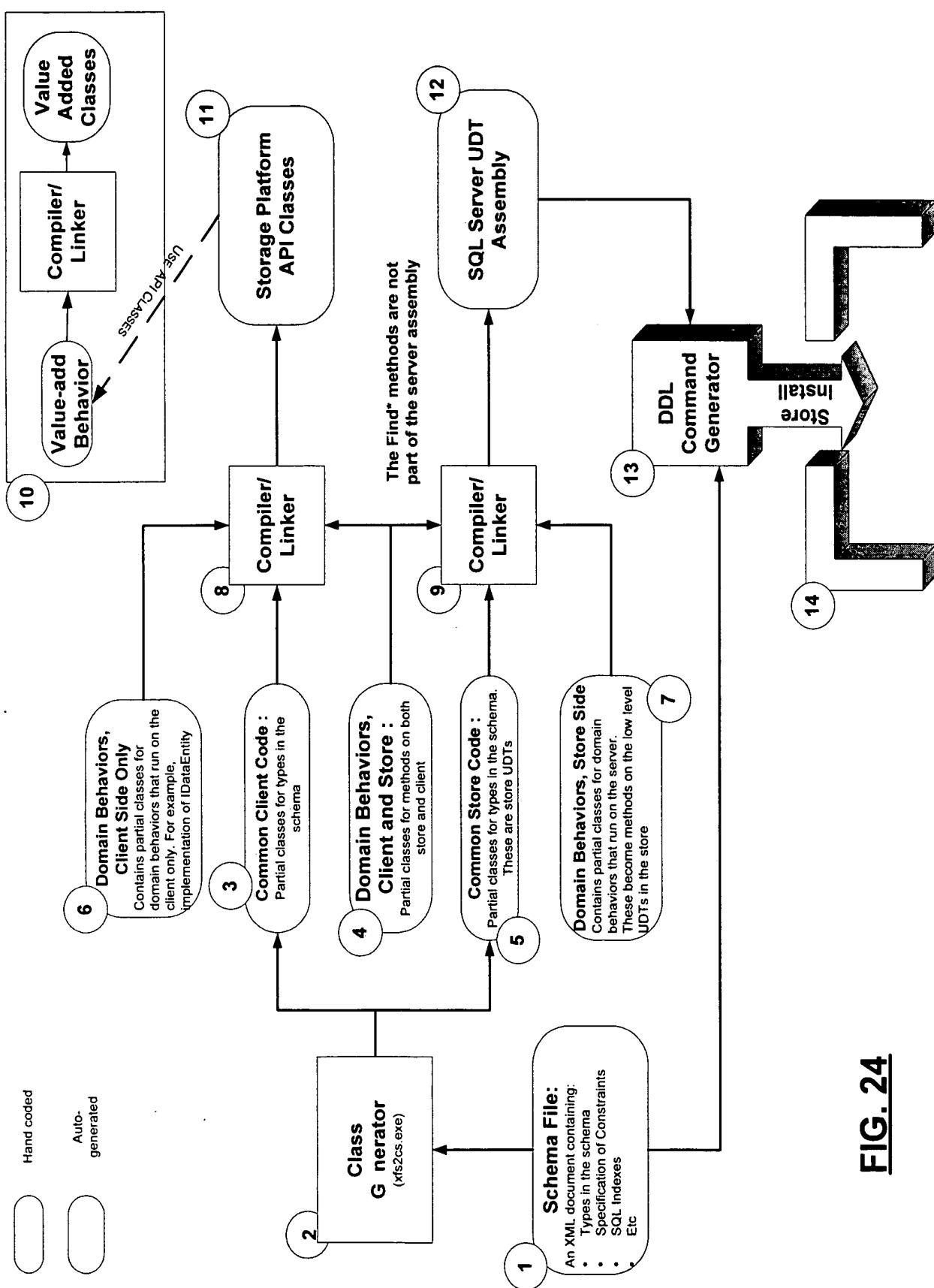


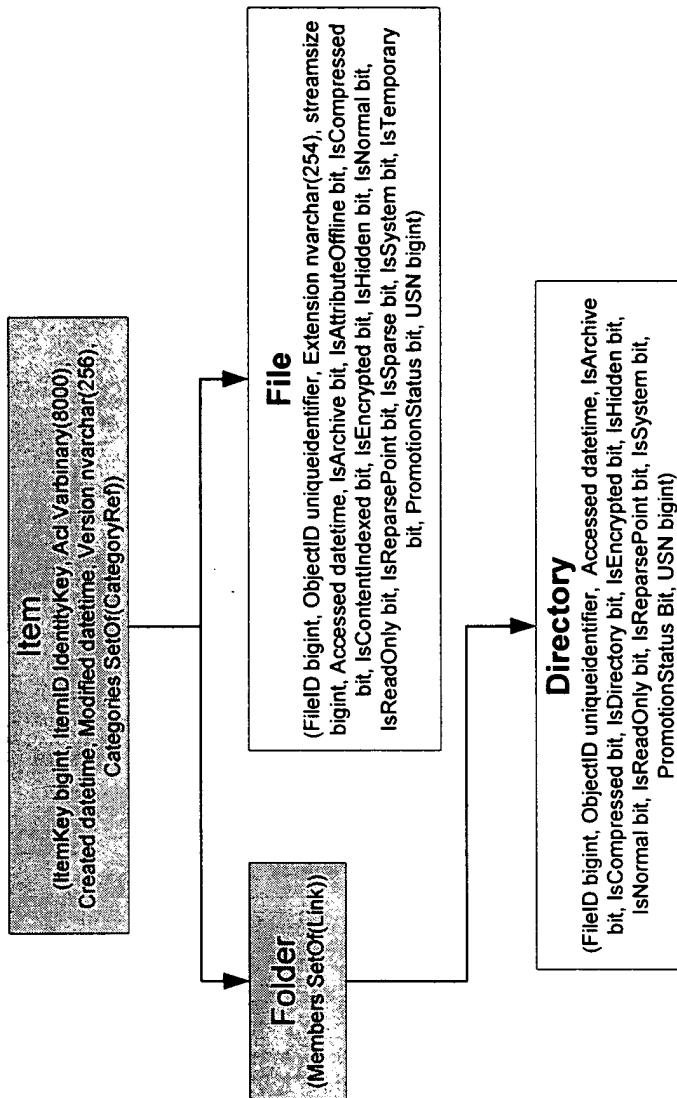
FIG. 21A

**FIG. 21B**

**FIG. 22**

**FIG. 23**

**FIG. 24**



Note: Grey boxes are types defined in the Base schema, but are shown here for the sake of completeness.

Items Defined in the Files Schema

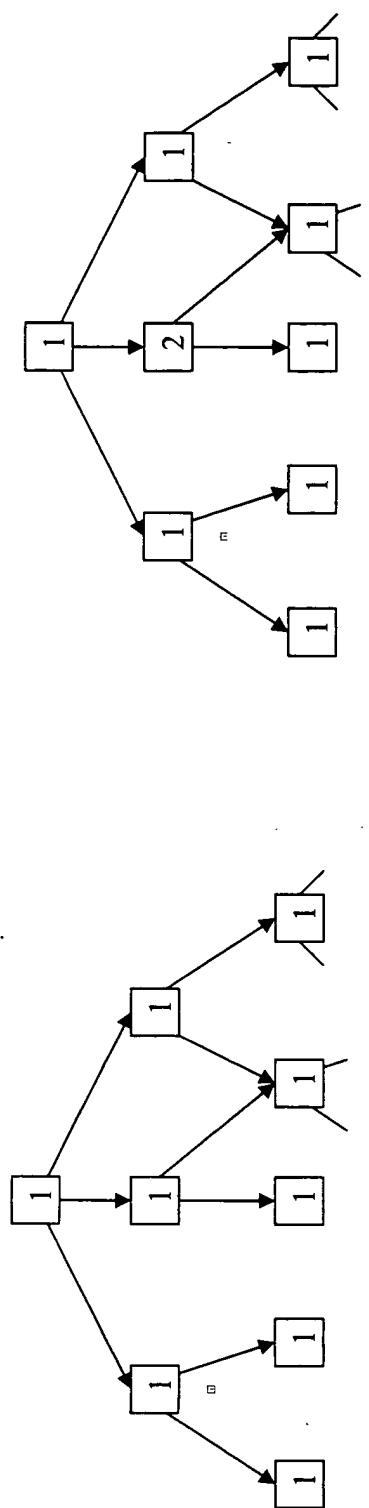
FIG. 25

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
G	G	G	G	Reserved	A	S																											
R	W	E	A																														

Object-Specific Access Rights

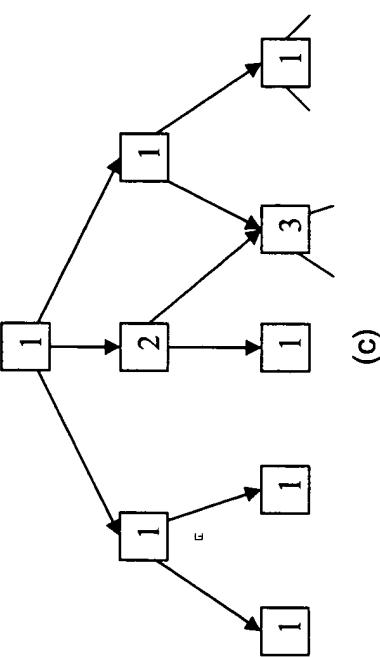
GR	--> Generic_Read
GW	--> Generic_Write
GE	--> Generic_Execute
GA	--> Generic_ALL
AS	--> Right to access SACL

FIG. 26



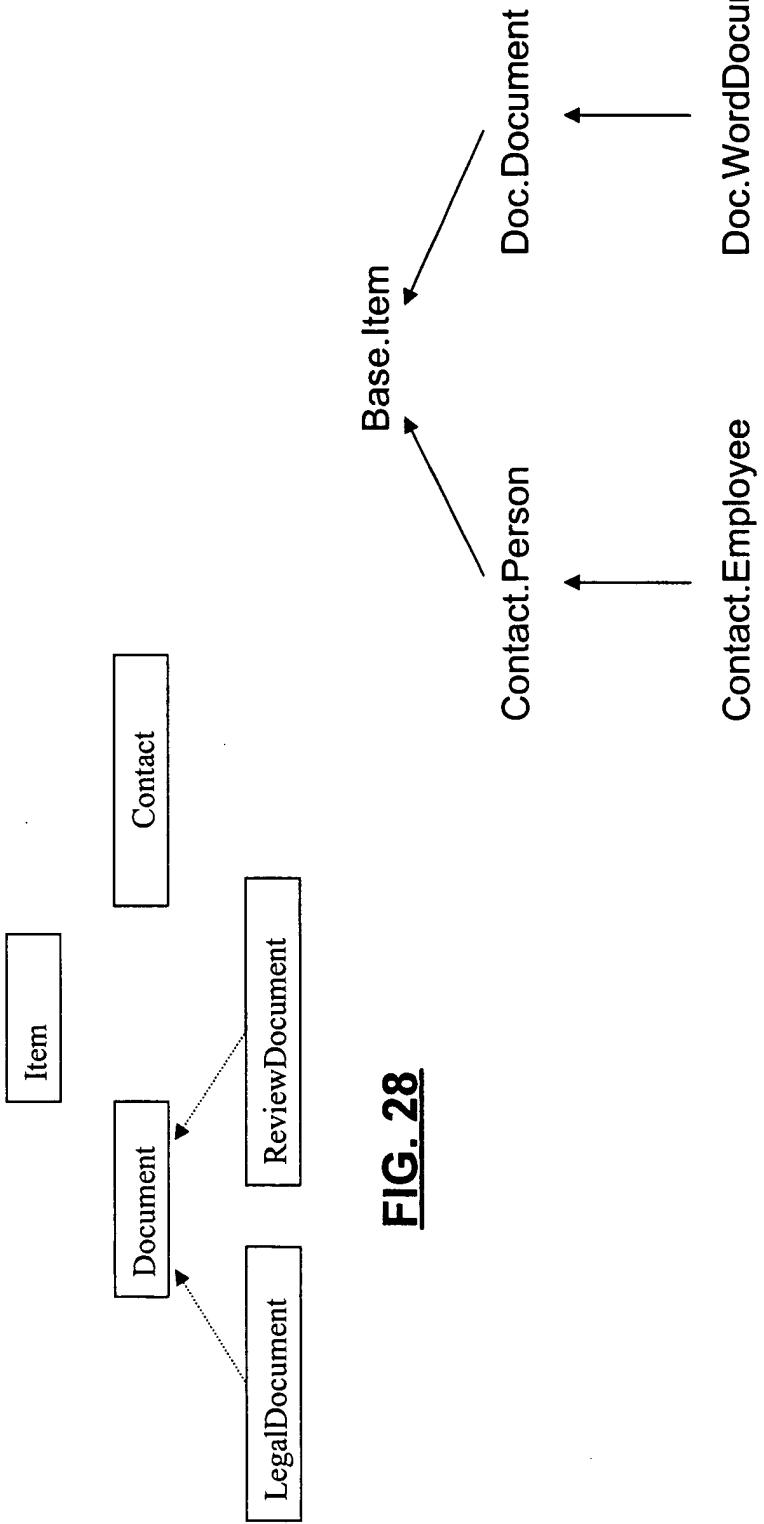
(a)

(b)



(c)

FIG. 27

**FIG. 29**

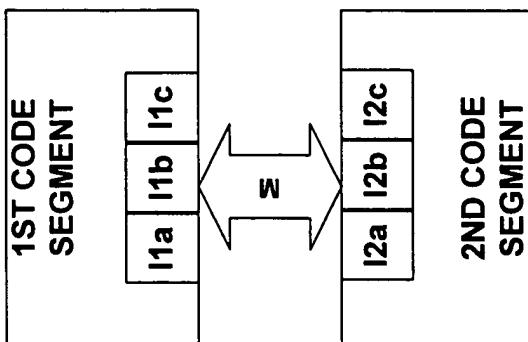


FIG. 31B

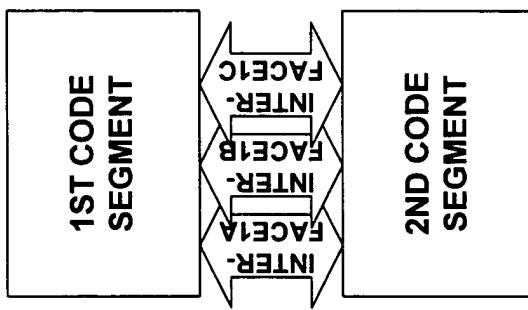


FIG. 31A

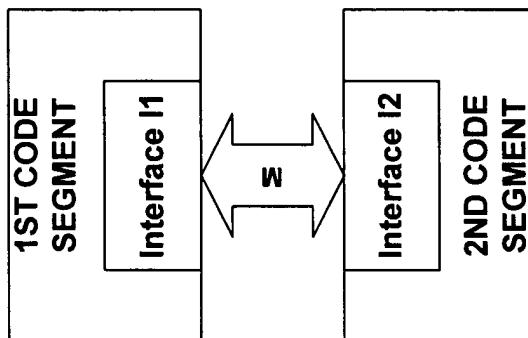


FIG. 30B

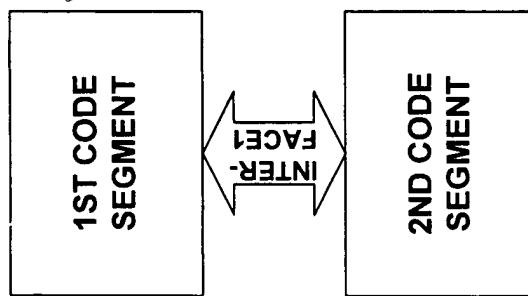
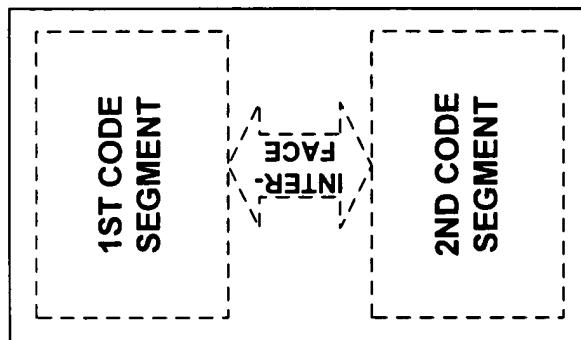
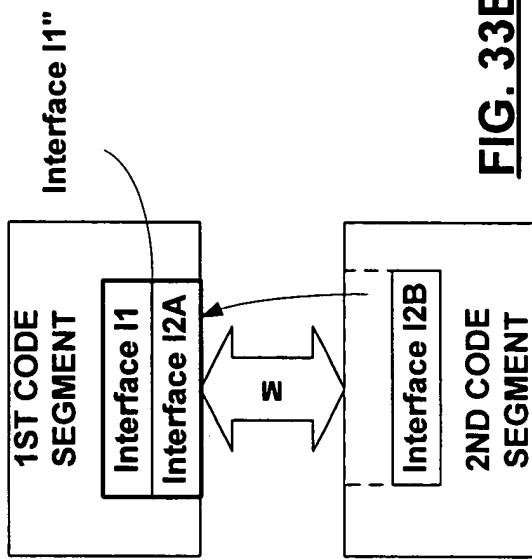
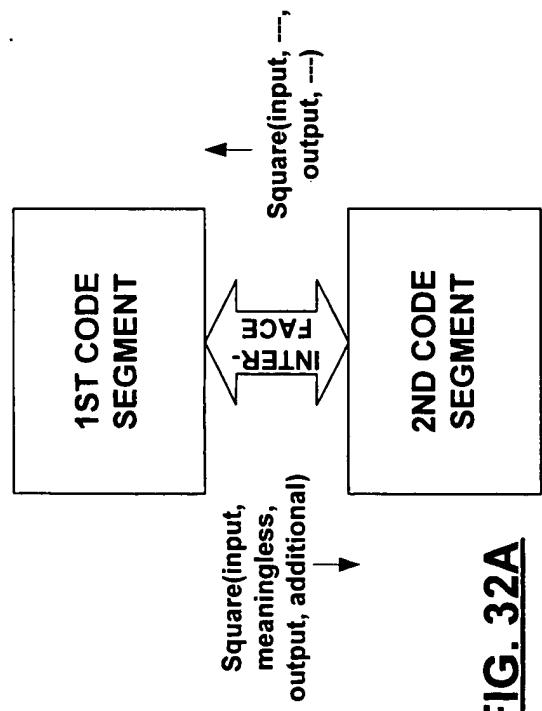
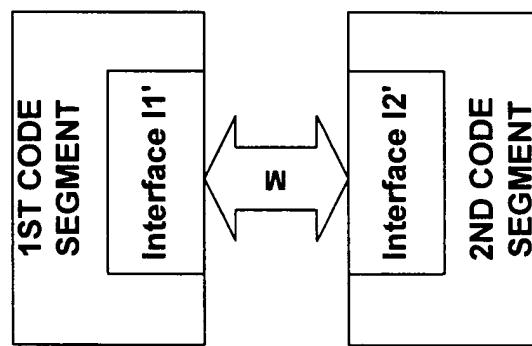


FIG. 30A

FIG. 33AFIG. 33BFIG. 32AFIG. 32B

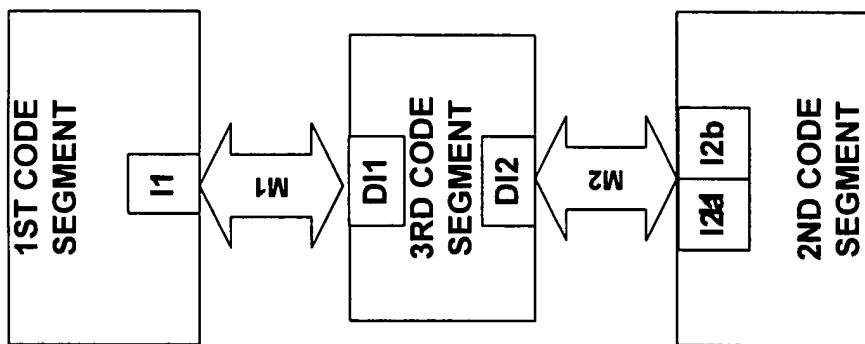


FIG. 34B

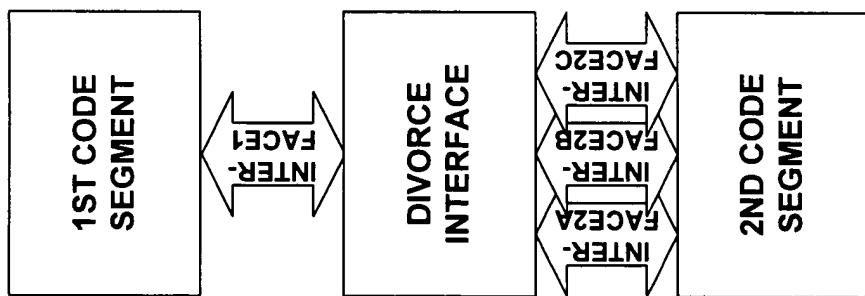


FIG. 34A

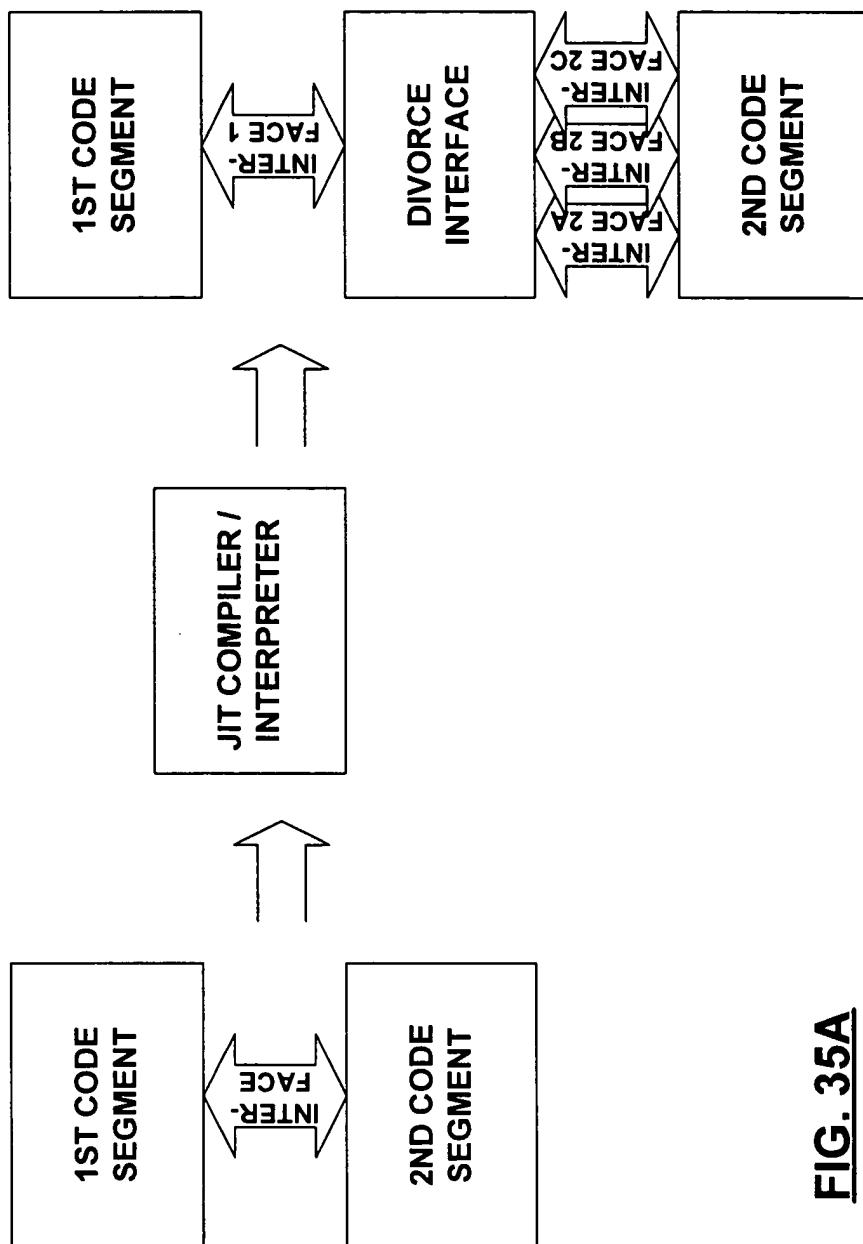


FIG. 35A

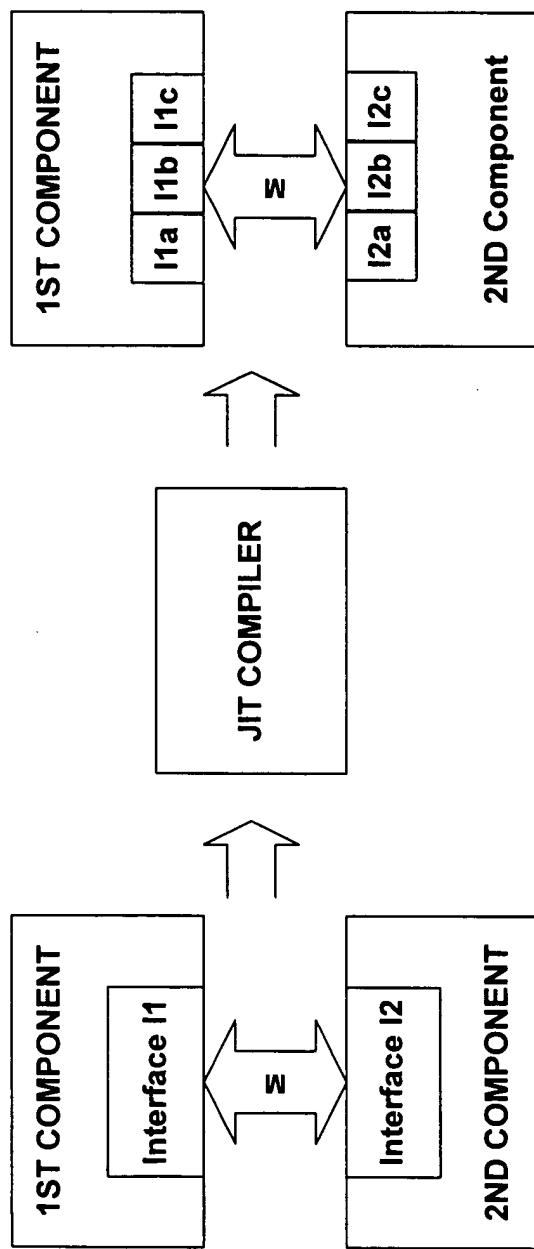
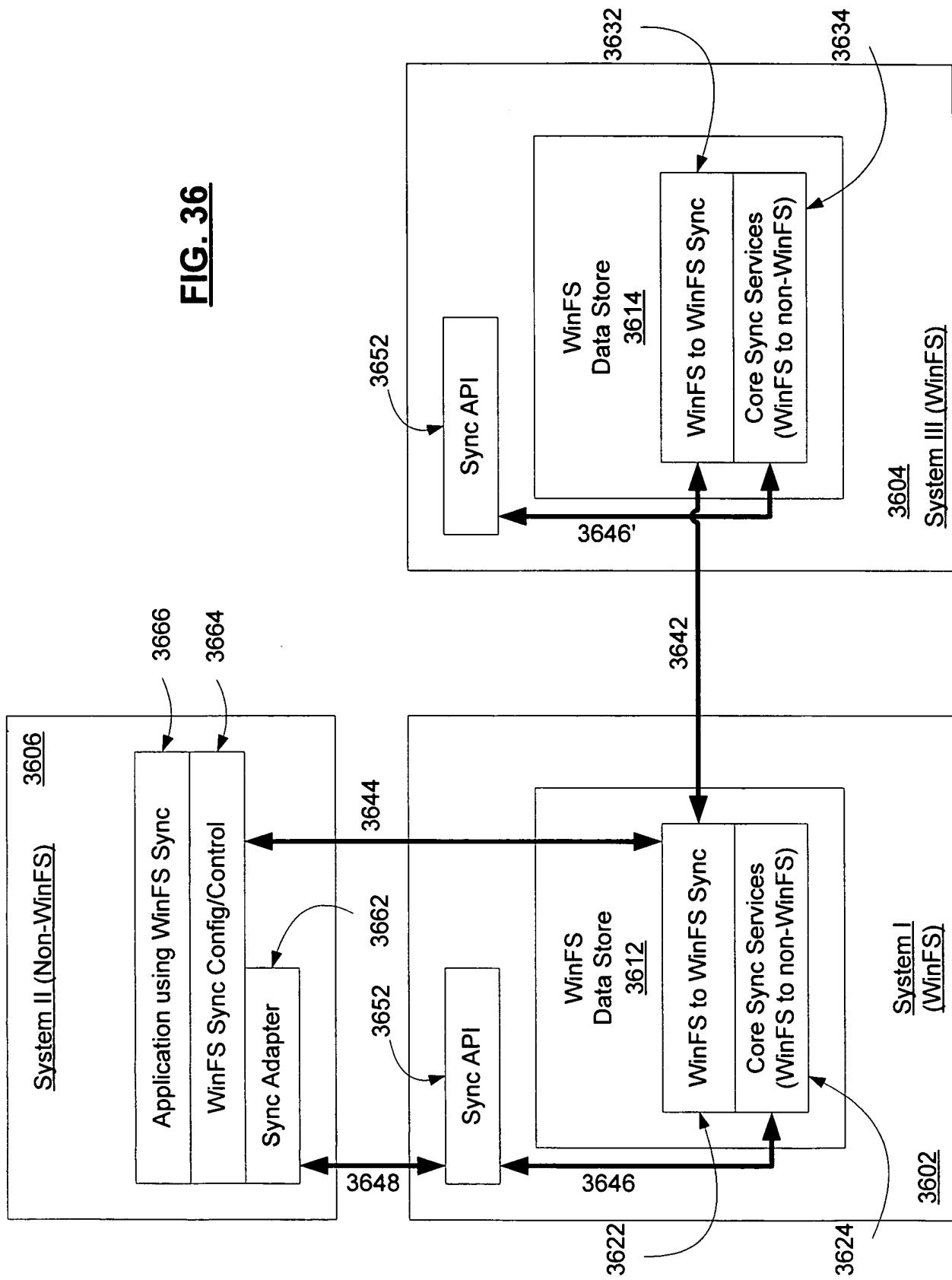


FIG. 35B

FIG. 36

3702
In regard to the data source, the replica determines which changes have occurred since it last synchronized with said data source and transmits these incremental changes and its present state information to the data source via the adapter.



3704

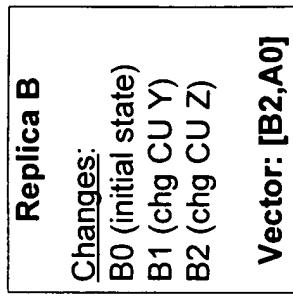
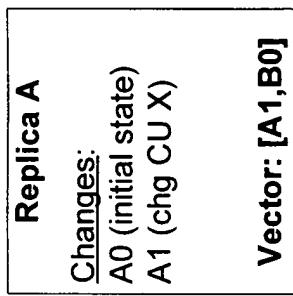
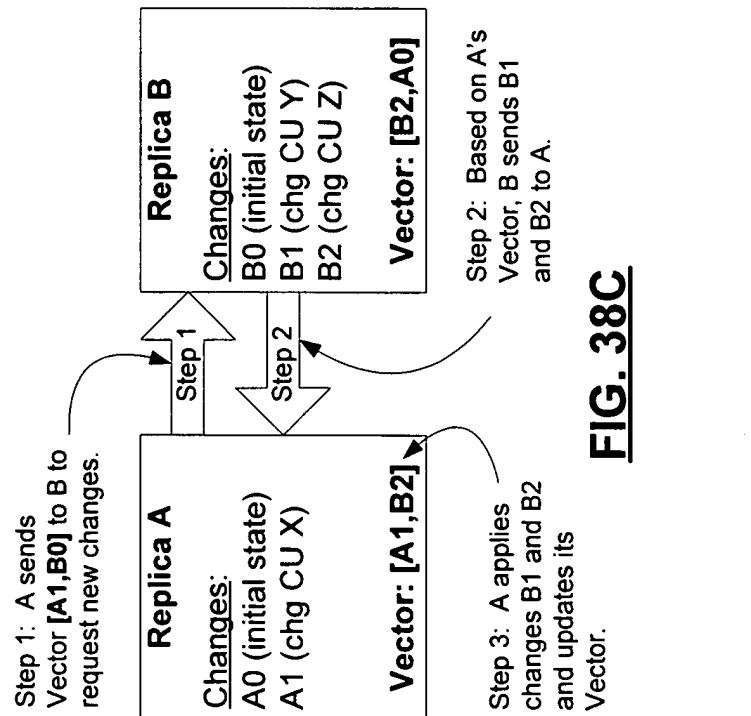
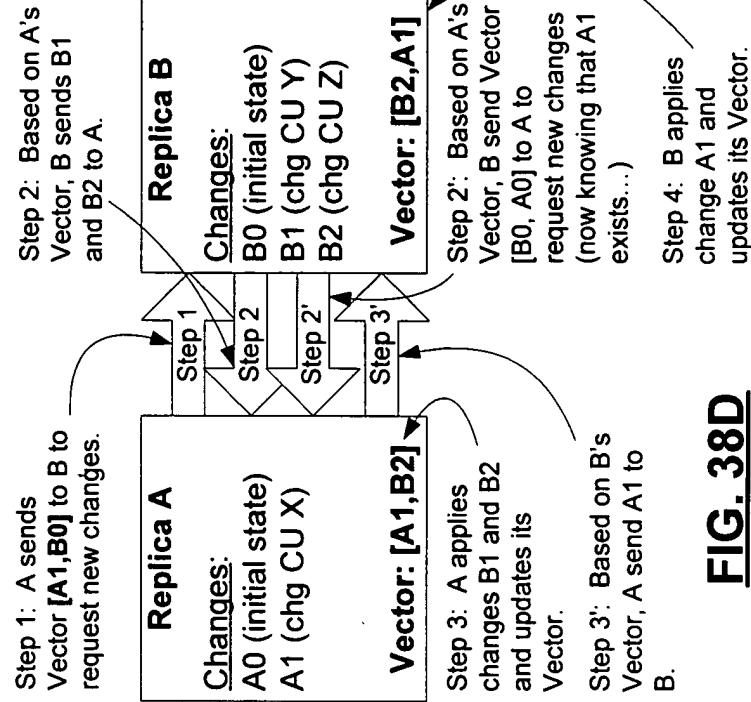
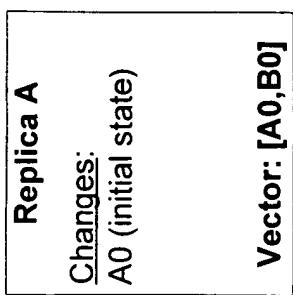
The adapter, upon receiving the change data from the replica, implements as many changes to the data source as possible, tracks which changes are successful and which fail, and transmits the success-and-failure info back to WinFS (of the replica).



3706

WinFS, upon receiving the success-and-failure info from the replica, calculates the new state information for the data source, stores same (ie, updates this state info for the replica), and transmits this new state info for the data sourced to the adapter for storage and subsequent use by the adapter.

FIG. 37

**FIG. 38B****FIG. 38A****FIG. 38C**

Step 4: B applies change A1 and updates its Vector.

FIG. 38D